

# PRODUCT DATA SHEET

## Sika® Level-01 Primer

Acrylic primer and sealing compound for mineral substrates

### PRODUCT DESCRIPTION

Sika® Level-01 Primer is an one part, white acrylic resin polymer water based dispersion, used to prime and seal concrete or mortar substrates prior to underlayment mortar application.

### USES

Sika® Level-01 Primer is used for sealing of mineral substrates and enhancing the bond of cementitious underlayments, industrial grade screeds and mortars Suitable for priming anhydrite screed substrates. Particularly suitable for using prior to the Sika® Level range of underlayments.

### CHARACTERISTICS / ADVANTAGES

- Effectively seals concrete surfaces in a single, economic operation, preventing water loss into the substrate, bubbles forming in the screed and for improving the bond between the substrate and the mortar
- Excellent bond strengths throughout the range of application temperatures
- Quick drying and fast film formation
- Easy to apply
- Can be used at different dilution rates depending on the substrate porosity

### ENVIRONMENTAL INFORMATION

- EMICODE EC 1<sup>PLUS</sup> : very low emission

### PRODUCT INFORMATION

<b>Chemical Base</b>	Water based acrylic resin
<b>Packaging</b>	5 and 25 kg plastic cans
<b>Appearance / Colour</b>	White liquid
<b>Shelf Life</b>	12 months from date of production
<b>Storage Conditions</b>	stored properly in original, unopened and undamaged sealed cans, in dry conditions at temperatures between +5 °C and +25 °C.
<b>Density</b>	~ 1.0 kg/l (+ 20 °C)
<b>Solid content by weight</b>	~ 46 %
<b>Solid content by volume</b>	~ 45 %
<b>Mixing Ratio</b>	1 or 2 coats at a 1:3 Sika® Level-01 Primer to water dilution by volume is adequate for most cases. Depending on the humidity and porosity and moisture content of the substrate, different combinations of dilution rates or number of coats can be used as shown in the table below.

Type of substrate	Dilution rate (volume)	Number of coats
Very porous mineral	1:4 or 1:5 for 1 <sup>st</sup> coat 1:3 for 2 <sup>nd</sup> coat	2 coats
normal porous mineral	1:3	1 or 2 coats
hardly porous mineral	1:4	1 coat

If in doubt apply a test area first.

<b>Consumption</b>	~ 0.10–0.20 kg / m <sup>2</sup> /coat (5–10 m <sup>2</sup> / kg/coat ) of diluted product. Some substrates will require higher consumption than indicated above. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage, etc.								
<b>Ambient Air Temperature</b>	+10 °C min. / +30 °C max.								
<b>Relative Air Humidity</b>	≤ 75 %								
<b>Substrate Temperature</b>	+10 °C min. / +30 °C max.								
<b>Pot Life</b>	diluted material apply within 8 hours								
<b>Waiting Time / Overcoating</b>	Allow previous coats to become tack-free before applying further cementitious underlayments. For cementitious application allow: <table border="1" data-bbox="601 806 1428 940"> <thead> <tr> <th>Substrate temperature</th> <th>Waiting time</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>8–12 hours</td> </tr> <tr> <td>+20 °C</td> <td>2–4 hours</td> </tr> <tr> <td>+30 °C</td> <td>1.5–3 hours</td> </tr> </tbody> </table> Times are approximate and will be affected by changing ambient conditions, particularly the temperature and relative humidity.	Substrate temperature	Waiting time	+10 °C	8–12 hours	+20 °C	2–4 hours	+30 °C	1.5–3 hours
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## SUBSTRATE QUALITY / PRE-TREATMENT

Surfaces must be sound, open textured, clean and free from frost, cement laitance, surface water, oil, grease, coatings, all loose or friable particles and any other surface contaminants.

The substrate must be prepared by suitable mechanical preparation techniques such as high-pressure water or abrasive blast cleaning equipment.

All dust, loose and friable material must be completely removed before application of the product, preferably by brush and/or vacuum.

The substrate can be dampened to a saturated surface dry (SSD) condition prior to application of the diluted Sika® Level-01 Primer.

## MIXING

Sika® Level-01 Primer is supplied as a concentrate for dilution.

Add Sika® Level-01 Primer to the pre-measured amount of clean drinking quality water according to the desired dilution rate (see mixing ratio above) and stir thoroughly (~1 minute) until a homogeneous mix is achieved (mixing by hand is adequate).

## APPLICATION

Application is best done by brush or by roller (which achieve better penetration and productivity). However, spray application is also possible, but 'ponding' on the surface must be avoided.

The suitability of any spray equipment must be tested first.

Wait for the first coat to dry tack-free before applying the second coat.

## CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use.

Hardened/cured material can only be removed mechanically.

## LIMITATIONS

- In hot weather (above +25 °C) store Sika® Level-01 Primer in a cool place prior to use.
- In low temperatures (below +15 °C) the product may thicken and be less easy to apply.
- Do not apply to substrates at temperatures below +10 °C and / or relative humidity above 75 %, which will hinder the film formation and may lead to poor film formation and pinholes in the levelling layer.
- The substrate should be surface dry with relative humidity of surrounding air low enough to allow efficient drying of the primer.
- Do not use product which has been subject to frost.
- Do not add the water to the concentrate as it will cause the product to foam.
- Spray equipment can be used, but ponding must be avoided. Brush or rollers help the product to penetrate better into the substrate.

- This product does not form a moisture barrier. Do not apply when a damp proof membrane is non-existent or has failed.
- The product can be used in combination with industrial self levelling screeds after adequate texturing of the concrete substrate to provide sufficient mechanical bond.
- The application of an excessive amount of the primer may actually reduce the resulting bond strength values. This amount will vary depending on the substrate.
- Sika® Level-01 Primer is not designed as primer for Sika® PU or AT based adhesives, see relevant product datasheet for suitable primers.
- If in doubt, apply a test area first.

## VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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